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**Bibliography**

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2C088 AA42 EB41 EB50 EB52 EB55 EB58 EB76

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#### Summary

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(57) [Abstract]

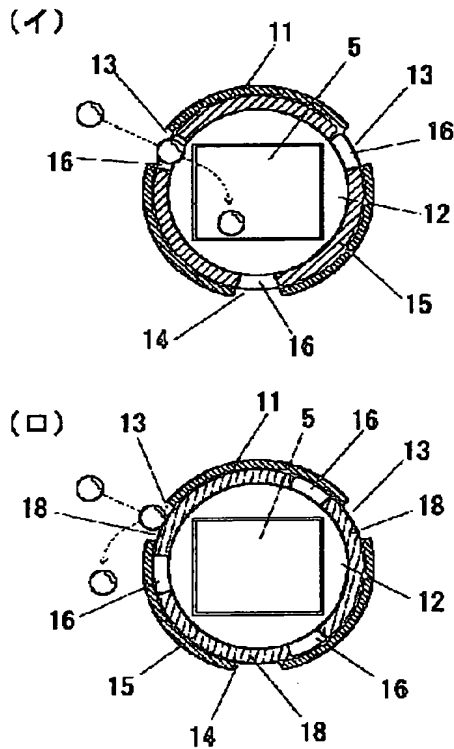
[Technical problem] The pachinko game machine to which the sphere transmission coefficient of guidance passage (warp root) may be changed according to a game state is offered.

[Means for Solution] While arranging in the front part of the pin center,large case 4 the annular cover ring part 11 which makes an internal field the guidance passage 12 and forming the sphere entrance 13 of the guidance passage 12 in this cover ring part 11 While forming the sphere outlet 14 of the guidance passage 12 in the lower position of the cover ring part 11 which counters the pattern starting field 7 right above The annular movable member 15 by which a rotation drive is carried out in accordance with the peripheral surface of this cover ring part 11 is arranged in the inside or the outside of the aforementioned cover ring part 11. Two or more openings 16 which can be in agreement with the sphere entrance 13 and the sphere outlet 14 of the aforementioned cover ring part 11, respectively are formed in this movable member 15 by the rotation. The open state of the guidance passage 12 where each opening 16 permits passage of a game sphere for the movable member 15 respectively in accordance with the sphere entrance 13 and the sphere outlet 14 of the cover ring part 11, It was made to carry out rotation control so that the closing state of the guidance passage 12 where the sphere entrance 13 and the

sphere outlet 14 of the cover ring part 11 are covered by the non-opening 18 of the movable member 15 might arise.

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**CLAIMS**

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**[Claim(s)]**

**[Claim 1]** The pin center, large case where the pattern display equipped with the pattern display which indicates the pattern by change is attached, It comes to have the pattern starting field which it is arranged [ field ] directly under this pin center, large case, and fluctuates the pattern of the aforementioned pattern display according to the inflow of a game sphere. And it sets to the pachinko game machine with which it comes to form the guidance passage which the aforementioned pin center, large case is made to pass the game sphere which flows down the game face of a board, and is advantageously led to it to the aforementioned pattern starting field. While arranging the annular cover ring part which makes an internal field guidance passage as surrounds pattern display and forming the sphere entrance of guidance passage in this cover ring part While forming the sphere outlet of guidance passage in the lower position of the cover ring part which counters the aforementioned pattern starting field right above The pachinko game machine which arranges in the inside or the outside of the aforementioned cover ring part the annular movable member by which a rotation drive is carried out in accordance with the peripheral surface of this cover ring part, and is characterized by forming in the sphere entrance and sphere outlet of the aforementioned cover ring part two or more openings which can be in agreement, respectively by the rotation at this movable member.

**[Claim 2]** The pachinko game machine which is characterized by providing the following and which was indicated to the claim 1 The open state of guidance passage where, on the other hand, carry out the rotation drive of the movable member at \*\*, or carry out a both-way rotation drive at a right opposite direction, and each opening permits passage of a game sphere respectively in accordance with the sphere entrance and sphere outlet of a cover ring part Drive control means possessing the operation mode which produces the closing state of guidance passage where the sphere entrance and sphere outlet of a cover ring part are covered by non-opening of a movable member

**[Claim 3]** The pachinko game machine indicated to the claim 1 or claim 2 characterized by having the drive control means characterized by providing the following The open state of guidance passage where, on the other hand, carry out the rotation drive of the movable member at \*\*, or carry out a both-way rotation drive at a right opposite direction, and each opening permits passage of a game sphere respectively in accordance with the sphere entrance and sphere outlet of a cover ring part The first operation mode which makes the sphere transmission coefficient of guidance passage low by producing by turns the closing state of guidance passage where a sphere entrance and a sphere outlet are covered by non-opening of a movable member The second operation mode which makes the sphere transmission coefficient of guidance passage high by making the position each opening of whose corresponds with the sphere entrance and sphere outlet of a cover ring part, respectively stop a movable member

[Claim 4] The pachinko game machine indicated to the claim 1 or claim 2 characterized by having the drive control means characterized by providing the following The second operation mode which makes the sphere transmission coefficient of guidance passage high by making the position each opening of whose corresponds with the sphere entrance and sphere outlet of a cover ring part, respectively stop a movable member The third operation mode which makes sphere passage of guidance passage impossible by stopping the position where non-opening covers the sphere entrance and sphere outlet of a cover ring part

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**DETAILED DESCRIPTION**

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[Detailed Description of the Invention]

[0001]

[The technical field to which invention belongs] this invention relates to the pachinko game machine to which it might be made to have made it the sphere transmission coefficient of guidance passage (warp root) change according to a game state.

[0002]

[Description of the Prior Art] If a game sphere flows into a pattern starting field, the pattern display equipped with the pattern display which indicates two or more patterns by change will drive. After fluctuating each pattern of a pattern display, make it stop one by one, give a definite indication, and when the combination of the definite pattern is a predetermined hit pattern mode The pachinko game machine it was made to produce the operation which brings a game person gain is known as the 1st sort pachinko game machine or a 3rd sort pachinko game machine.

[0003] If it is in this kind of pachinko game machine, although the pin center,large case which attaches pattern display is arranged in the center of abbreviation of the game face of a board, generally forming the guidance passage called the warp root which this pin center,large case is made to pass the game sphere which flows down

the game face of a board, and is advantageously led to it to a pattern starting field [ directly under ] is performed.

[0004] As for the conventional guidance passage, opening of the sphere entrance is carried out to the upper part or the right-and-left both-sides section of a pin center,large case. By making it flow down the inside of the sphere path formed along with the outline common-law marriage of a pin center,large case in the game sphere which flowed from this sphere entrance, and emitting from the sphere outlet by which opening is carried out to the lower part of a pin center,large case There is much what was constituted so that it might be made to fall near the upper part of the pattern starting field currently arranged directly under the pin center,large case. Furthermore, there are some which were constituted so that the fall direction of a game sphere might be made unfixed by preparing the attachment component which holds temporarily the game sphere emitted from the aforementioned sphere outlet, and always carrying out the rocking drive of this attachment component.

[0005]

[Problem(s) to be Solved by the Invention] Many [ by the way,, / if the probability-changing (probability change) operation which raises the next great success probability of occurrence, and the reduction-of-working-hours operation which shortens the change time of a pattern till next great success are performed and it is in the 3rd sort pachinko game machine after the end of the special game operation by the great success, when it is becoming it a great success in the combination of a specific pattern, if it is in the 1st sort pachinko game machine / thing / had the content of game control performed in the aforementioned probability-changing operation Although it is desirable to make the number of game spheres which passes through guidance passage and flows into a pattern starting field in addition gain game states, such as such probability changing and reduction of working hours, increase, and to make pattern change perform continuously If it was in the guidance passage of composition conventionally, the transmission coefficient of a game sphere was fixed, the sphere transmission coefficient of guidance passage could not be raised at the time of execution of addition gain game states, such as probability changing and reduction of working hours, but, for this reason, there was a trouble of the ability not to make the number of game spheres which flows into a pattern starting field increase.

[0006] this invention cancels this conventional trouble and aims at offering the pachinko game machine to which it might be made to have made it the sphere transmission coefficient of guidance passage change according to a game state.

[0007]

[Means for Solving the Problem] The pin center,large case where the pattern display equipped with the pattern display to which this invention indicates two or more patterns by change is attached, It comes to have the pattern starting field which it is arranged [ field ] directly under this pin center,large case, and fluctuates the pattern of the aforementioned pattern display according to the inflow of a game

sphere. And it sets to the pachinko game machine with which it comes to form the guidance passage which the aforementioned pin center, large case is made to pass the game sphere which flows down the game face of a board, and is advantageously led to it to the aforementioned pattern starting field. While arranging the annular cover ring part which makes an internal field guidance passage as surrounds pattern display and forming the sphere entrance of guidance passage in this cover ring part While forming the sphere outlet of guidance passage in the lower position of the cover ring part which counters the aforementioned pattern starting field right above It is the pachinko game machine which arranges in the inside or the outside of the aforementioned cover ring part the annular movable member by which a rotation drive is carried out in accordance with the peripheral surface of this cover ring part, and is characterized by forming in the sphere entrance and sphere outlet of the aforementioned cover ring part two or more openings which can be in agreement, respectively by the rotation at this movable member.

[0008] Are in this composition, and, on the other hand, carry out the rotation drive of the movable member at \*\*, or a both-way rotation drive is carried out at a right opposite direction. The open state of guidance passage where each opening permits passage of a game sphere respectively in accordance with the sphere entrance and sphere outlet of a cover ring part, The sphere entrance and sphere outlet of a cover ring part should be equipped with the drive control means possessing the operation mode which produces the synzesis state of the guidance passage covered by non-opening of a movable member.

[0009] Moreover, on the other hand, carry out the rotation drive of the movable member at the above-mentioned drive control means at \*\*, or a both-way rotation drive is carried out at a right opposite direction. By producing by turns the open state of the guidance passage where each opening permits passage of a game sphere respectively in accordance with the sphere entrance and sphere outlet of a cover ring part, and the synzesis state of guidance passage where a sphere entrance and a sphere outlet are covered by non-opening of a movable member The composition which makes the first operation mode which makes the sphere transmission coefficient of guidance passage low, and the second operation mode which makes the sphere transmission coefficient of guidance passage high by making the position each opening of whose corresponds with the sphere entrance and sphere outlet of a cover ring part, respectively stop a movable member provide may be proposed.

[0010] It is in this composition and the sphere transmission coefficient of guidance passage can be made high by considering as the second operation mode stopped in the position each opening of whose of a movable member corresponds with the sphere entrance and sphere outlet of a cover ring part, respectively at the time of execution of addition gain game states, such as probability changing and reduction of working hours. Moreover, in usual game states other than addition gain game states, such as probability changing and reduction of working hours, the sphere transmission

coefficient of guidance passage can be made low by considering as the first operation mode which the open state and synzesis state of guidance passage produce by turns. Thereby, the sphere transmission coefficient of guidance passage may be changed according to a game state.

[0011] Furthermore, by making the above-mentioned drive control means stop a movable member in the position each opening of whose corresponds with the sphere entrance and sphere outlet of a cover ring part, respectively You may make it make the second operation mode which makes the sphere transmission coefficient of guidance passage high, and the third operation mode which makes sphere passage of guidance passage impossible by stopping the position where non-opening covers the sphere entrance and sphere outlet of a cover ring part provide.

[0012]

[Embodiments of the Invention] One example of this invention is explained based on a drawing. The pin center,large case 4 where drawing 1 is the front view of the game face of a board 2 of the pachinko game machine 1 constituted as a 1st sort pachinko game machine, and the pattern display 3 was attached in the center of abbreviation of this game face of a board 2 is arranged. Here, the pattern display 3 can be equipped with the pattern display 5 which consists of a liquid crystal display, a CRT display machine, a dot-matrix drop, etc., and can indicate now by change the three patterns A, B, and C which become this pattern display 5 from a number, a pictorial map, etc., respectively. Moreover, the pattern starting storage numeral equipment 6 which consists of four pilot lamps is formed in the upper part of the pattern display 3.

[0013] The pattern starting field 7 is arranged in the directly under position of the pin center,large case 4. This pattern starting field 7 is the pattern starting switch S1, when internal sphere passage is equipped with the pattern starting switch S1 (refer to drawing 4 ) and a game sphere flows into the pattern starting field 7. The pattern displayed on the pattern display 5 of the aforementioned pattern display 3 with the sphere detection to depend is changed. Moreover, when a game sphere flows into this pattern starting field 7 continuously, it is the pattern starting switch S1. While the sphere detection signal of a shell is memorized by the starting storage of the storage RAM shown by drawing 4 constituted by the field in part, the pilot lamp of the aforementioned pattern starting storage numeral equipment 6 lights up one by one, and the number of storage is displayed. The pilot lamp of this display 6 is switched off one by one, whenever the pattern display 3 carries out a change start based on the number of storage of the aforementioned starting storage.

[0014] Down the aforementioned pattern starting field 7, change winning-a-prize equipment 9 equipped with the large winning-a-prize mouth 8 is arranged. The lid 10 of the shape of an oblong rectangle opened and closed to a cross direction by using a soffit as the rotation supporting point is formed in the large winning-a-prize mouth 8, and the large winning-a-prize mouth 8 is changed for any of an open state and a synzesis state being through opening-and-closing control of this lid 10. Moreover,



inside the large winning-a-prize mouth 8, the accessory continuation operation switch S3 (refer to drawing 4 ) detected in sphere passage of the specific winning-a-prize field in 10 count switch S2 (refer to drawing 4 ) for carrying out counting of the number of winning-a-prize spheres which is mentioned later, and which flowed from the large winning-a-prize mouth 8 during the game operation specially as great success, and the large winning-a-prize mouth 8 by which partition formation was carried out to the field is formed in part. Here, it is the accessory continuation operation switch S3. It has the function as a count switch for carrying out counting of the number of game spheres which passed through the specific winning-a-prize field during great success, sphere passage of a specific winning-a-prize field is detected, and the opening-and-closing round which makes the number of times of predetermined an upper limit is made to continue. Moreover, accessory continuation operation switch S3 The winning-a-prize sphere detected is 10 count switch S2 by which counting is carried out into one opening-and-closing round. It is added together by the number of winning-a-prize spheres to depend.

[0015] Next, the guidance passage (warp root) which is the important section of this invention is explained. As the pattern display 3 is surrounded in the anterior part of the aforementioned pin center, large case 4, the approximate circle annular cover ring part 11 is arranged in it, and the internal field of this cover ring part 11 serves as the guidance passage 12. The sphere outlet 14 is formed in the lower part of the cover ring part 11 which the sphere entrances 13 and 13 are formed in the upper right flank and upper left flank of this cover ring part 11, respectively, and counters the aforementioned pattern starting field 7 right above. Here, as for each sphere entrances 13 and 13 and the sphere outlet 14, it is desirable to form the periphery of the cover ring part 11 in the position which carries out a trisection. Moreover, inside the cover ring part 11, the approximate circle annular movable member 15 by which a rotation drive is carried out in accordance with the peripheral surface of this cover ring part 11 is arranged, and opening 16 is formed in three places which are in agreement with this movable member 15 with the rotation at the sphere entrances 13 and 13 and the sphere outlet 14 of the aforementioned cover ring part 11, respectively.

[0016] The aforementioned movable member 15 by carrying out a rotation drive by the rotation driving means 17 mentioned later As are shown in drawing 2 I and it is indicated in drawing 2 RO as the open state of the guidance passage 12 where each opening 16 permits passage of a game sphere respectively in accordance with the sphere entrances 13 and 13 and the sphere outlet 14 of the cover ring part 11 It is made to produce the synzesis state of the guidance passage 12 where the sphere entrances 13 and 13 and the sphere outlet 14 of the cover ring part 11 are covered by the non-opening 18 of the movable member 15.

[0017] As shown in drawing 3 , the aforementioned rotation driving means 17 were equipped with the electrical motor 19 as a driving source, and have geared with the gearing 22 by which the gearing 21 supported to revolve by the axis of rotation 20 of

this electrical motor 19 was formed in the posterior part of the movable member 15. And by carrying out drive control of the electrical motor 19 by the drive control means constituted by the game control unit 23 mentioned later. On the other hand, carry out the rotation drive of the movable member 15 at \*\*, or a both-way rotation drive is carried out at a right opposite direction. The open state of the guidance passage 12 where each opening 16 permits passage of a game sphere respectively in accordance with the sphere entrances 13 and 13 and the sphere outlet 14 of the cover ring part 11, The first operation mode which the synzesis state of the guidance passage 12 where the sphere entrances 13 and 13 and the sphere outlet 14 are covered by the non-opening 18 of the movable member 15 produces by turns, It may have comes to produce alternatively the second operation mode which makes the position each opening 16 of whose corresponds with the sphere entrances 13 and 13 and the sphere outlet 14 of the cover ring part 11, respectively stop the movable member 15.

[0018] Moreover, the operation mode of the above second which the position each opening 16 of whose corresponds with the sphere entrances 13 and 13 and the sphere outlet 14 of the cover ring part 11, respectively is made to stop the movable member 15, and makes high the sphere transmission coefficient of the guidance passage 12 by drive control means, It may be made to make it produce alternatively the third operation mode which makes sphere passage of the guidance passage 12 impossible by stopping the position where the non-opening 18 covers the sphere entrances 13 and 13 and the sphere outlet 14 of the cover ring part 11.

[0019] As mentioned above, here the sphere entrances 13 and 13 and the sphere outlet 14 of the cover ring part 11 If the rotation drive of the movable member 15 is carried out on the other hand at \*\* when it forms in the position which carries out the trisection of the periphery of the cover ring part 11 and each opening 16 of the movable member 15 is formed in the position which is in agreement with the aforementioned sphere entrances 13 and 13 and the sphere outlet 14 with rotation, respectively Each opening 16 can be made in agreement with the sphere entrances 13 and 13 and the sphere outlet 14 of the cover ring part 11 for the third rotation of every. Moreover, when the sphere entrances 13 and 13, the sphere outlet 14, and each opening 16 are formed in positions other than the position which carries out the trisection of the periphery, the both-way rotation drive of the movable member 15 will be carried out at a right opposite direction so that the open state and synzesis state of the guidance passage 12 may arise by turns.

[0020] The above-mentioned pattern display 3, change winning-a-prize equipment 9, and the drive control means of the movable member 15 are constituted by the game control unit 23 (microcomputer system) which consists of a central control unit CPU shown by drawing 4 . This central control unit CPU performs drive control in a predetermined procedure, and Storage ROM and the storage RAM which can write required data at any time are connected. In Storage ROM, if it is becoming it a great success in the combination of the control program of the electrical motor 19 which

carries out the rotation drive of the movable member 15, the pattern change display program of the pattern display 3, and a specific pattern. The probability-changing (probability change) operation which raises the next great success probability of occurrence after the end of the special game operation by the great success, Fixed data, such as a voice generating pattern for generating the control program which performs the reduction-of-working-hours operation which shortens the change time of a pattern till next great success, the control program of the winning-a-prize mouth opening solenoid 24 which opens and closes the lid 10 of change winning-a-prize equipment 9, the sound effect from a loudspeaker, etc., are memorized.

[0021] moreover, 10 count switch S2 for carrying out counting of the number of winning-a-prize spheres to the pattern starting switch S1 prepared in the pattern starting field 7, and change winning-a-prize equipment 9 to a central control unit CPU and the accessory continuation operation switch S3 formed in the specific winning-a-prize field etc. — various switches are connected through input port. The sphere detection signal sent out from each of these switches shapes in waveform by the waveform shaping circuit, and is told to a central control unit CPU as input data, and the information is memorized by Storage RAM. The address bus (not shown) which, on the other hand, tells a target the information which specifies the address which write data to be memory is connected to this storage RAM, and a central control unit CPU and Storage ROM and RAM are connected to it by the data bus which exchanges data.

[0022] Furthermore, the pattern display 3 which is controlled through an output port and which was mentioned above, the winning-a-prize mouth opening solenoid 24, an electrical motor 19, and pattern starting storage numeral equipment 6 are connected to a central control unit CPU. In addition, the sound generator outputted to amplifier in response to sound data is connected to the central control unit CPU.

[0023] Next, the operation of the pachinko game machine 1 which consists of the above-mentioned composition is explained. As the rotation drive of the movable member 15 is carried out through the control drive by drive control means and the usual game state before resulting in great success is shown in drawing 2 I. As it is indicated in drawing 2 RO as the open state of the guidance passage 12 where each opening 16 of the movable member 15 permits passage of a game sphere respectively in accordance with the sphere entrances 13 and 13 and the sphere outlet 14 of the cover ring part 11. The synzesis state of the guidance passage 12 where the sphere entrances 13 and 13 and the sphere outlet 14 are covered by the non-opening 18 of the movable member 15 is held at the first operation mode produced by turns. Thereby, the sphere transmission coefficient of the guidance passage 12 can be made low. And the game sphere which passed through the guidance passage 12 in the state of [ above-mentioned ] opening is emitted from the sphere outlet 14, and since it falls near the upper part of the pattern starting field 7 currently arranged in directly under, it will be in the state of being easy to flow into the pattern starting field 7 as compared with the gam sphere which flows down the

game face of a board 2 of the exterior of the cover ring part 11.

[0024] Moreover, the non-opening 18 of the movable member 15 stops in the position which covers the sphere entrances 13 and 13 and the sphere outlet 14 of the cover ring part 11, and you may make it held in the usual game state before resulting in great success, at the third operation mode which makes sphere passage of the guidance passage 12 impossible, as it replaces with the operation mode of the above first and is shown in drawing 2 RO. In this case, only the game sphere which flows down the external game face of a board 2 will flow into the pattern starting field 7.

[0025] And when a game sphere flows into the pattern starting field 7, it is the pattern starting switch S1. A shell sphere detection signal is sent out and the pattern display 3 drives with the supply of a premium sphere. In addition, as mentioned above, when a game sphere flows into the pattern starting field 7 continuously, it is the pattern starting switch S1. The number of sphere detection to depend is memorized by the starting storage of Storage RAM, and based on the number of storage, the pilot lamp of pattern starting storage numeral equipment 6 lights up one by one, and is suspended a maximum of 4 times. This pilot lamp is switched off whenever a pattern carries out a change start, and the number of storage decreases.

[0026] If the patterns A, B, and C which will be displayed on the pattern display 5 if the pattern display 3 drives as mentioned above start change according to predetermined pattern permutation and it passes more than a predetermined time (for example, about 6.5 seconds), pattern change will stop. And if the hit pattern mode A, B, and C predetermined in the halt pattern, i.e., patterns, becomes the combination of the same pattern, great success will occur and the special game operation of change winning-a-prize equipment 9 will be performed.

[0027] By this special game operation, the winning-a-prize mouth opening solenoid 24 will be in ON state, a lid 10 concentrates ahead, the large winning-a-prize mouth 8 is opened wide, and an opening-and-closing round is started. A predetermined released time (for example, 30 seconds) passes, or one opening-and-closing round is 10 count switch S2 within this predetermined released time. It is continued until winning-a-prize detection of the game sphere of the predetermined number (for example, ten pieces) is made. The winning-a-prize mouth opening solenoid 24 will be in an OFF state after \*\*\*\*, and a lid 10 rotates back, it will be in a standing-up state, the large winning-a-prize mouth 8 is closed, and one round is completed.

[0028] And the sphere passage of a specific winning-a-prize field in the large winning-a-prize mouth 8 by which partition formation was carried out in part to the field is the accessory continuation operation switch S3 in the above-mentioned opening-and-closing round. If detected, the conditions which progress to the next opening-and-closing round will be satisfied, and the large winning-a-prize mouth 8 will be opened wide again. If this opening-and-closing round is repeated the number of times of predetermined (for example, a maximum of 16 times), the special game

operation of change winning-a-prize equipment 9 will be completed.

[0029] Here, when the above-mentioned great success is great success by the combination of a specific pattern, the probability-changing operation which raises the great success probability of occurrence, and the reduction-of-working-hours operation which shortens the change time of a pattern will be performed before next great success. And in such an addition gain game state, halt control of the movable member 15 is carried out through the control drive by drive control means, and as shown in drawing 1 and drawing 2 I, it is held at the second operation mode stopped in the position each opening 16 of whose of the movable member 15 corresponds with the sphere entrances 13 and 13 and the sphere outlet 14 of the cover ring part 11, respectively. It becomes possible to make the number of game spheres which can raise the sphere transmission coefficient of the guidance passage 12, with flows into the pattern starting field 7 by this increase.

[0030] In addition, although the example showed the example which arranged the movable member 15 inside the cover ring part 11, this movable member 15 can also be arranged in the outside of the cover ring part 11. Moreover, although an electrical motor 19 is made into a driving source and it is made to carry out the rotation drive of the movable member 15 through gearings 21 and 22, it is also possible by replacing with this and using a solenoid and a link mechanism to carry out the both-way rotation drive of the movable member 15. Moreover, although the example explained the case where this invention was applied to the 1st sort pachinko game machine, this invention is applicable also to the 3rd sort pachinko game machine.

[0031]

[Effect of the Invention] As having mentioned above, according to this invention, there is an outstanding effect which can control the sphere transmission coefficient of guidance passage according to a game state by being able to change the sphere transmission coefficient of guidance passage, and making the sphere transmission coefficient of guidance passage high at the time of execution of addition gain game states, such as probability changing and reduction of working hours, and usually making the sphere transmission coefficient of guidance passage low in a game state.

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## DESCRIPTION OF DRAWINGS

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### [Brief Description of the Drawings]

[Drawing 1] It is the front view showing the game face of a board of the pachinko game machine concerning this invention.

[Drawing 2] It is drawing of longitudinal section of an important section in which I shows the open state of guidance passage, and RO shows the synizesis state of guidance passage, respectively.

[Drawing 3] It is the perspective diagram showing the rotation driving means of a movable member.

[Drawing 4] It is the block circuit diagram showing a game control unit (microcomputer system).

### [Description of Notations]

- 1 Pachinko Game Machine
- 2 Game Face of a Board
- 3 Pattern Display
- 4 Pin Center,large Case
- 5 Pattern Display
- 7 Pattern Starting Field
- 11 Cover Ring Part
- 12 Guidance Passage
- 13 Sphere Entrance
- 14 Sphere Outlet
- 15 Movable Member
- 16 Opening
- 18 Non-Opening

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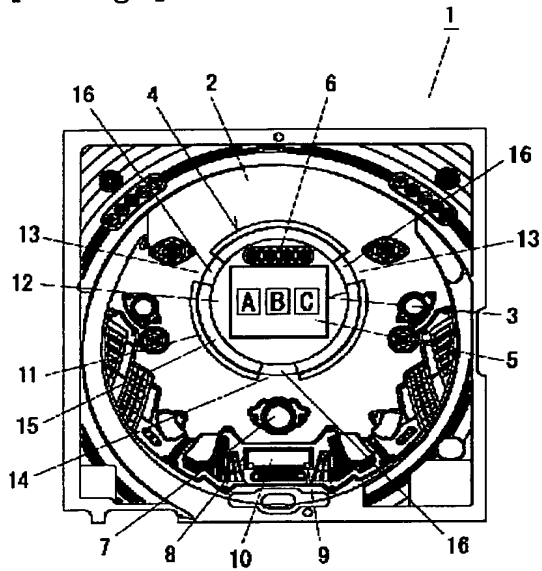
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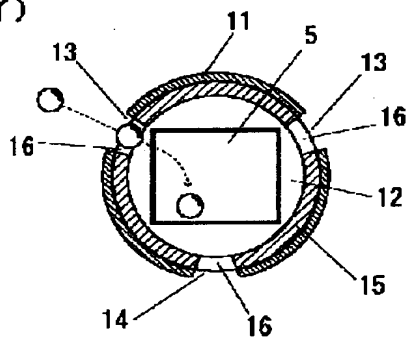
## DRAWINGS

[Drawing 1]

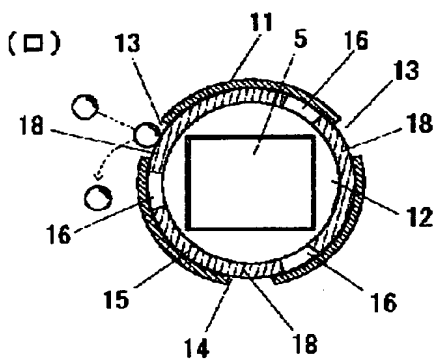


[Drawing 2]

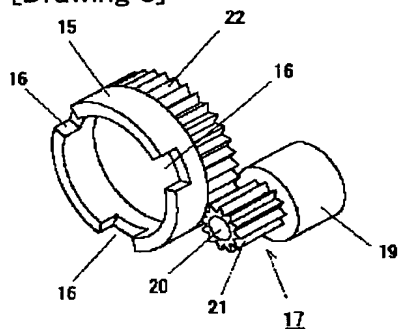
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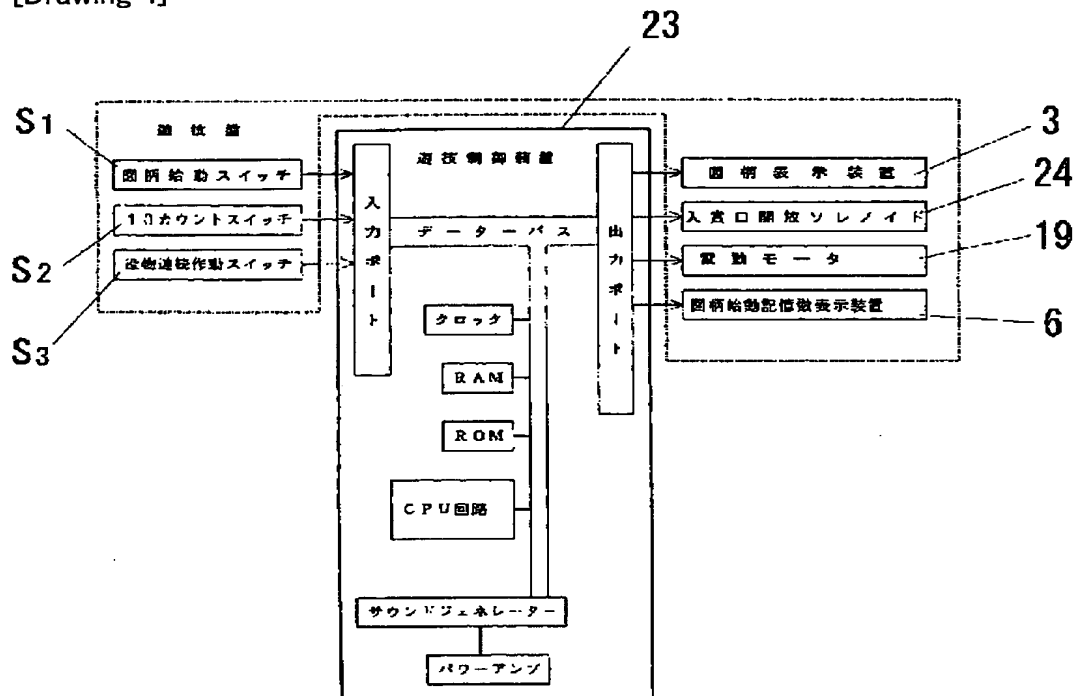
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[Drawing 3]



[Drawing 4]



[Translation done.]